

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hiromi KATAOKA

Title: SIMILAR PATTERN SEARCHING APPARATUS, METHOD OF  
SIMILAR PATTERN SEARCHING, PROGRAM FOR SIMILAR  
PATTERN SEARCHING, AND FRACTIONATION APPARATUS

Appl. No.: Unassigned

International Filing Date: 11/12/2004

371(c) Date: 05/22/2006

Examiner: Unassigned

Art Unit: Unassigned

Confirmation Number: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

**RELEVANCE OF EACH DOCUMENT**

The relevance of non-English language documents A1-A4 is described in the present specification.

Documents A4-A10 were cited as being relevant during a search of the corresponding International application. A copy of the International Search Report setting forth the portion of each reference considered relevant by the examiner is attached.

Unless otherwise indicated, no English translation is readily available (not considering machine-generated translations that may be freely available online, to both the Applicant and the PTO) for each of the non-English language documents. However, a commercially available English language abstract is provided herewith, where indicated on the attached Form PTO/SB/08. Inasmuch as Applicants have endeavored to provide at least one item that complies with the requirement for a “concise explanation of relevance” for each of the non-English language documents, each of these documents has been submitted in compliance with the PTO requirements and should be considered by the Examiner (37 CFR §1.97, §1.98 and MPEP §609).

Applicant respectfully requests that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

By



Date May 22, 2006

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| Substitute for form 1449B/PTO<br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>Date Submitted: May 22, 2006<br><i>(use as many sheets as necessary)</i> |   |   |   | <b>Complete if Known</b> |  |
| Application Number<br>Filing Date<br>First Named Inventor<br>Group Art Unit<br>Examiner Name<br>Attorney Docket Number  |   | Unassigned<br>05/22/2006<br>Hiromi KATAOKA<br>Unassigned<br>Unassigned<br>028567-0146 |   |                          |  |
| Sheet   | 1 | of  | 2 |                          |  |

| U.S. PATENT DOCUMENTS |                          |                      |   |  |  |  |
|-----------------------|--------------------------|----------------------|---|--|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | U.S. Patent Document |   | Name of Patentee or Applicant of<br>Cited Document | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                          | Number               | Kind<br>Code <sup>2</sup> (if<br>known) |  |  |  |
|                       |                          |                      |   |  |  |  |
|                       |                          |                      |   |  |  |  |
|                       |                          |                      |   |  |  |  |

| FOREIGN PATENT DOCUMENTS |                          |                         |                     |                                      |   |  |  |                |
|--------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|---|--|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document |                     |                                      | Name of Patentee or<br>Applicant of Cited Documents | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|                          |                          | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |   |  |  |                |
|                          |                          |                         |                     |                                      |   |  |  |                |
|                          |                          |                         |                     |                                      |   |  |  |                |

| NON PATENT LITERATURE DOCUMENTS |                          |  |                |
|---------------------------------|--------------------------|--|----------------|
| Examiner<br>Initials*           | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>6</sup> |
| /SCC/                           | A1                       | N. Tatsumi et al., "Practical Use of Automated White Cell Differential," HORIBA Technical Reports, No. 20, 2000, pages 23-26.  |                |
| /SCC/                           | A2                       | H. Kataoka et al., "Construction of Data Mining Assistance System for Leukocyte Particle Size Distribution," Japanese Journal of Clinical Laboratory Automation (JJCLA), Vol. 27, No. 4, page 583.   |                |
| /SCC/                           | A3                       | H. Kataoka et al., "Clustering and 3D Visualization of Leukocyte Scattergrams," Medical Informatics, Vol. 22 (Suppl.), 2002, pages 209-210.  |                |
| /SCC/                           | A4                       | H. Ioki et al., "Clustering of Leukocyte Scattergram in Allergic Diseases," Medical Informatics, Vol. 22 (Suppl.), 2002, pages 211-212.  |                |
| /SCC/                           | A5                       | H. Kataoka et al., "Similarity Search of Protein Electrophoresis Waveform by the Self Organizing Map," Japanese Journal of Clinical Laboratory Automation, Vol. 25, No. 4, August 1, 2000, page 408.   |                |
| /SCC/                           | A6                       | H. Kataoka et al., "Similarity Search of Protein electrophoresis Waveform by the Self Organizing Map and Dynamic Programming Method," Japan Journal of Medical Information, November 23, 2000, No. 20, No. Supplement 2, pages 394-395.                        |                |
| /SCC/                           | A7                       | H. Kataoka et al., "A Data Mining System for Protein Electrophoresis Waveforms," Japanese Journal of Clinical Laboratory Automation, June 1, 2001, Vol. 26, No. 3, pages 170-175.  |                |

|                       |                 |                    |            |
|-----------------------|-----------------|--------------------|------------|
| Examiner<br>Signature | /Sheela Chawan/ | Date<br>Considered | 04/11/2009 |
|-----------------------|-----------------|--------------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

**Date Submitted: May 22, 2006**

*(use as many sheets as necessary)*

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| Sheet | 2 | of | 2 |
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**Complete if Known**

|                               |                |
|-------------------------------|----------------|
| <b>Application Number</b>     | Unassigned     |
| <b>Filing Date</b>            | 05/22/2006     |
| <b>First Named Inventor</b>   | Hiromi KATAOKA |
| <b>Group Art Unit</b>         | Unassigned     |
| <b>Examiner Name</b>          | Unassigned     |
| <b>Attorney Docket Number</b> | 028567-0146    |

## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>a</sup> |
|--------------------|-----------------------|--|----------------|
| /SCC/              | A8                    | H. Ioki et al., "Data Mining Case Search by Platelet Scattergram Using Data Mining Method," Japanese Journal of Clinical Laboratory Automation, August 1, 2002, Vol. 27, No. 4, page 584.  |                |
| /SCC/              | A9                    | H. Kataoka et al., "Similarity Search of Leukocyte Scattergram Based on Mixture Density Approximation and Clustering," 23 <sup>rd</sup> JCMI, Nov. 2003, Vol. 23, pages 447-450.   |                |
| /SCC/              | A10                   | H. Kataoka et al., "A Similarity Wave Data Search Based on Dynamic Programming – SOM," Transactions of Information Processing Society of Japan, 15 September, 2001, Vol. 42, No. SIG010, pages 92-99.  |                |
|                    |                       |  |                |

**Examiner  
Signature**

/Sheela Chawan/

Date Considered

04/11/2009

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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